Atty Dkt. No.: 10010464-1
USSN: 10/061,800

LISTING OF CLAIMS

Below is a listing of the pending claims. No amendments have been made in this response.

1. (ORIGINAL) A method of fabricating a chemical array using:

a head system with multiple groups of drop dispensers;

a transport system to move the head system with respect to a substrate;

a processor to dispense droplets from dispensers during operation of the transport system, in a pattern along a selected path for each group;

the method comprising:

a) loading the dispensers with fluid such that each dispenser group has at least one set of redundant dispensers loaded with a same fluid;

b) dispensing drops from the dispensers to identify an error in one or more dispensers;

c) moving a first dispenser of each set in each group along the selected path for that group while dispensing drops from non-error first dispensers of the sets in at least part of the pattern along the selected path for each group;

entered 8/3/05 mc

d) moving a second dispenser of the sets in each group along the selected path for that group while dispensing drops from a non-error second dispenser of a set having an identified error first dispenser, in at least part of the pattern for the selected path of the first group; and

e) repeating (a) through (d) at least once;

wherein the array is fabricated.

2. (ORIGINAL) A method according to claim 1 wherein in step (d) drops are dispensed from each second dispenser of multiple groups in at least part of the pattern for the selected path of the same group.

3. (ORIGINAL) A method according to claim 2 wherein:

dispensers within a set of redundant dispensers communicate with a common reservoir for that set.

4. (ORIGINAL) A method according to claim 1 wherein the dispensers are pulse jets.

5. (ORIGINAL) A method according to claim 2 wherein in (d) the drops are dispensed from at least one second dispenser of a set of redundant dispensers, in the complete pattern for the first